



seele

ISO shade[®]

FAÇADE UNIT
WITH SUNBLIND IN THE CAVITY

ISOshade® – the façade unit with sunblind in the cavity

Summer thermal insulation is essential for a feel-good atmosphere and comfort indoors. With ISOshade®, solar energy can be conveniently regulated via the façade. The solar protection façade from seele is optimally developed for office buildings, retail and lobby façades as well as private houses. In its design variety, ISOshade® can be realised as a mullion-transom, SG and element façade.

Designed like insulating glass, ISOshade® meets all the requirements for an economical double façade with integrated solar shading without a complex structure. ISOshade® combines solar, thermal and sound insulation in a compact design. The slim element consists of a triple insulating glass and an integrated solar shading in the cavity either an external venetian blind or a vertical awning.

ISOshade® takes over tasks and actively controls heat and cold by connecting the façade with the building management system. The sunblind in the cavity reacts actively to weather data in a predictive manner. From sensor technology in the cavity to building automation up to a self-learning system, the smart façade is a significant enabler in the “net zero” approach for buildings.

References

- Meteorological Institute, Leipzig
- Museum St. Afra, Augsburg
- Competence Center, Darmstadt
- University building, Chemnitz
- IWIS Headquarters, Munich

You can find further references at www.seele.com



Simple and smart



Technical specification

ISOshade[®]

The data given below are valid for one standard element. Depending on the performance specification, the data may vary depending on construction project and requirements.

	Venetian blind	Vertical awning
Glass configuration	60 mm wide slats: <ul style="list-style-type: none">• Outside: single glazing• Cavity: 130 mm• Inside: triple glazing 80 mm wide slats: <ul style="list-style-type: none">• Outside: single glazing• Cavity: 150 mm• Inside: triple glazing	<ul style="list-style-type: none">• Outside: single glazing• Cavity: 150 mm• Inside: triple glazing
Glass options	Depending on requirements, e.g. toughened/laminated safety glass, low-iron glass, acoustic interlayer, solar-control coatings, ceramic printing	Depending on requirements, e.g. toughened/laminated safety glass, low-iron glass, acoustic interlayer, solar-control coatings, ceramic printing
Unit thickness	> 180 mm	> 200 mm
Dimensions	Width: 700 - 4,100 mm Height: 1,000 - 4,100 mm	Width: 700 mm - 3,100 mm Height: 1,600 mm - 4,100 mm
Sunshade	Flat slats, light-redirecting slats	UV-resistant fabric
Weight	> 90 kg/sqm	> 90 kg/sqm
Airborne sound insulation Rw	44 - 52 dB	44 - 52 dB
U_g-value	0,5 W/(sqmK)	0,5 W/(sqmK)
g-value	6 - 40 %	6 - 40 %
Intruder resistance	Depending on requirements, e.g. RC2*	Depending on requirements, e.g. RC2*
Tests and approvals	<ul style="list-style-type: none">• Fogging, based on DIN EN 1279-6 and ift-Guideline VE-07/2-4.3• Long-term functionality (20,000 cycles) according to ift-Guideline VE-07/2-6• *Resistance to manual breakage attempts according to EN 1630:2011+A1:2015• Airborne sound insulation according to EN ISO 10140-1, EN ISO 10140-2 and EN ISO 717-1	

